

# 1218A Musical Instrument Speaker System

1218A



Designed to meet the high performance standards of professional musicians, the ALTEC 1218A Musical Instrument Speaker System is rated to handle up to 50 watts of continuous power and produces an extremely wide angle of coverage to afford maximum listening enjoyment.

All components of the 1218A speaker system are carefully matched:

421A-type (422-8Z) Low-Frequency Musical Instrument Loudspeaker . . . 15" woofer for high efficiency in reproducing bass and mid-bass sounds. 3" edge-wound voice coil, rigid cast aluminum frame, powerful magnet.

811B High-Frequency Sectoral Horn . . . massive, cast aluminum, 25" wide. Operates from 800 Hz to beyond audibility.

807-8Z High-Frequency Driver . . . has an extremely rugged voice coil and diaphragm assembly that handles much more power than conventional drivers. Uniform response from 500 to 20,000 Hz.

N809-8A Dividing Network . . . precision two-section crossover network with HF attenuation control, 800 Hz crossover and 12 dB/octave slope. Two phone-jack paralleled inputs.

A sturdy wooden bass reflex enclosure provides excellent bass and mid-bass reproduction.

The 1218A has a resilient epoxy spatter finish. It is portable and is fitted with a tubular swivel mount, recessed die-cast handles and removable latching front cover. Standard phone jacks for cable connections and a 50-foot cable accessory make handling and setup easy.

Detailed specifications and descriptions of 1218A system components can be obtained from their respective ALTEC catalog sheets and brochures.

**ALTEC**<sup>®</sup>

A DIVISION OF ALTEC CORPORATION

1515 S. Manchester Ave., Anaheim, Calif. 92803



## SPECIFICATIONS

<b>Type:</b>	Portable two-way musical instrument speaker system with wide-angle coverage
<b>Power Rating:</b>	50 watts with high-frequency attenuator in the '0' position. 100 watts power handling capacity may be obtained by setting the HF attenuator to the '6' position.
<b>Input Impedance:</b>	8 ohms
<b>Pressure Sensitivity:</b>	102 dB SPL measured at 4' on axis with 1 watt input of pink noise from 500 Hz to 3000 Hz. Equal to E.I.A. rating of 55 dB with 1 mW input (Ref.: 0.0002 dyne/cm <sup>2</sup> ).  119 dB SPL measured at 4' on axis with 50 watts input (full power rating) of pink noise from 500 Hz to 3000 Hz (Ref.: 0.0002 dyne/cm <sup>2</sup> ).
<b>Frequency Response:</b>	35 Hz to 20 kHz (see Figure 1)
<b>Crossover Frequency:</b>	800 Hz, full range dual LC network, 12 dB/octave slope
<b>Input Connection:</b>	Two standard phone jacks
<b>Components:</b>	1 ALTEC 422-8Z Low-Frequency Musical Instrument Loudspeaker (421A type) 1 ALTEC 811B High-Frequency Sectoral Horn 1 ALTEC 807-8Z High-Frequency Driver 1 ALTEC N809-8A Dividing Network (see Figure 2)
<b>Enclosure:</b>	Bass reflex type. ¾-inch plywood construction with resilient epoxy spatter finish. Fitted with tubular swivel mount, recessed die-cast handles and removable latching front cover (see Figure 3).
<b>Dimensions:</b>	30¼" H x 28" W x 19¾" D (76.84 cm H x 71.12 cm W x 50.17 cm D)
<b>Weight:</b>	110 pounds (49.81 kg)
<b>Accessory:</b>	50', 2-conductor cable with standard phone plug on each end

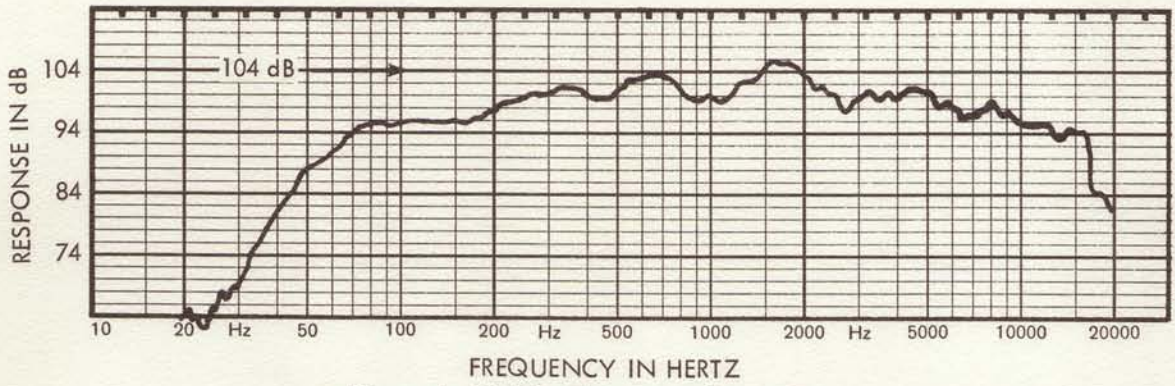


Figure 1. 1218A Frequency Response



Figure 2. N809-8A Dividing Network

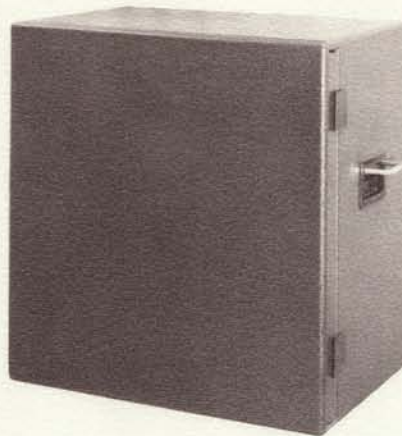


Figure 3. 1218A with Cover Installed



## ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The speaker system shall be the two-way musical instrument type with a sturdy plywood bass reflex enclosure, an 800 Hz dividing network, a 15-inch musical instrument type LF loudspeaker, an HF driver and a cast aluminum 25-inch sectoral horn having exponential expansion. A 50-foot, 2-conductor cable with standard phone plug at each end shall be included with the system. The speaker system shall be portable and shall meet the following performance criteria. Power rating, 50 watts. Input impedance, 8 ohms. Frequency response, 35 Hz to 20 kHz. Pressure sensitivity; 102 dB SPL at 4 feet from 1 watt, 119 dB SPL at 4 feet from 50 watts (equal to EIA rating of 55 dB SPL at 30 feet from 1 milliwatt). Crossover frequency, 800 Hz. Crossover slope, 12 dB/octave. Dimensions, 30 $\frac{1}{4}$ " H x 28" W x 19 $\frac{1}{4}$ " D. The speaker system shall have a resilient epoxy spatter finish, a tubular steel swivel mount, recessed die-cast handles and removable latching front cover, and shall weigh 110 pounds.

The speaker system shall be the ALTEC Model 1218A Musical Instrument Speaker System.